IN THE CLAIMS:

Please amend the claims as follows:

1. (Twice Amended) An electrochemical test device for determining the presence or concentration of an analyte in an aqueous fluid sample, said electrochemical test device comprising:

(a) a single substrate, the single substrate comprising [a non-conductive surface comprising] a non-conductive coating affixed to one side of a flexible material;

(b) a working electrode comprising an amorphous semiconductor material affixed to the non-conductive coating [surface], said working electrode having a first electrode area, a first lead and a first contact pad;

(c) a counter electrode comprising an amorphous semiconductor material affixed to the non-conductive coating [surface], said counter electrode having a second electrode area, a second lead and a second contact pad; and

(d) a reagent capable of reacting with the analyte to produce a measurable change in potential which can be correlated to the presence or concentration of the analyte in the fluid sample, said reagent overlaying at least a portion of the first electrode area of the working electrode.

52. (Amended) An electrochemical testing device comprising:

a single substrate, the single substrate being of sufficient flexibility to undergo roll-type processing, the single substrate [layer] comprising a flexible metallic material;

a non-conductive, surface morphology-improving coating affixed to a surface of the single substrate [layer]; and

an amorphous semiconductor material layer affixed to the non-conductive coating.

60. (Amended) An electrochemical testing device comprising:

a single substrate, the single substrate being of sufficient flexibility to undergo roll-type processing, the single substrate [layer] comprising an annealed, preshrunk polymeric material;

a surface morphology-improving coating affixed to a surface of the single substrate [layer]; and

an amorphous semiconductor material affixed to the [non-conductive] coating.

Please add the following claims:

-- 67. The electrochemical test device of claim 52, further comprising a reagent capable of reacting with an analyte to produce a measurable change in potential.

68. The electrochemical test device of claim 60, further comprising a reagent capable of reacting with an analyte to produce a measurable change in potential. --